on each end of the leaf spring 36 adjacent the pintle. The concealed end 41 of the screw 40 is adapted to abut the outer periphery of member 35 and cause the free end of the spring 36 to be flexed outwardly therefrom. When the screw 40 is threaded a sufficient amount in one direction, the tip of pintle 34 will be withdrawn from groove 33 thereby permitting the lug 31 to be withdrawn axially from the end of member 35. Upon the screw 40 being threaded in the opposite direction, the spring 36 will once again take effect and cause the tip of the pintle 34 to project through the opening 38. Thus, the lug 31 may subsequently be brought into automatic locking relation with the approximator by merely inserting the lug 31 into one end of the approximator until the pintle 34 snaps into seating engagement with groove 33. The length of the approximator 32 may be greater or less than that shown to meet the circumstances of the particular surgery being performed. Furthermore, if so desired, the lug 31 may have a facet formed on the periphery thereof, which would cooperate with a like facet formed on the interior of

tive to the approximator, when in assembled relation therewith. It is believed therefore that an improved surgical forceps has been provided which is simple and compact in construction, may be readily sterilized, and will not tear, rupture, sever, or permanently damage the vascular tissues or members gripped thereby. Furthermore a forceps and approximator combination has been provided which permits ready assembly and disassembly of the parts by the surgeon or his assistants during the course of the operation. While a particular embodiment of this invention is

the approximator, whereby the lug could not rotate rela-

shown above, it will be understood, of course, that the invention is not to be limited thereto, since many modifications may be made, and it is contemplated, therefore, by the appended claims, to cover any such modifications as fall within the true spirit and scope of this invention.

1. Surgical forceps comprising a pair of complemental jaw segments operatively connected to one another for movement into and out of gripping relation; a portion of one of said segments being nested within and partially encompassed by a portion of said other segment, when said segments are in gripping relation, and a resilient pliable member mounted on the encompassing jaw segment and in spaced overling relation with the gripping surface thereof; said segments having the gripping surfaces thereof in spaced relation with respect to one another when said jaw segments are in gripping relation.

2. Surgical forceps comprising a pair of complemental jaw segments operatively connected to one another for movement into and out of gripping relation, one of said jaw segments being provided with a coarse protruding gripping surface, which is adapted to be partially encompassed by and in spaced relation with the other jaw segment, when said segments are in gripping relation, and a resilient pliable member detachably mounted on said other jaw segment and in spaced overlying relation with respect to the gripping surface thereof; said member being flexed by said coarse gripping surface in a direction toward the gripping surface of said other segment, when said segments are in gripping relation.

3. Surgical forceps comprising a pair of elongated elements pivotally connected together to form a pair of complemental jaw segments movable into and out of gripping relation upon pivotal movement of said elements, the gripping surface of one jaw segment being protuberant and adapted to be partially encompassed by the gripping surface of said other jaw segment when said segments are in gripping relation, a stud extending transversely from the pivotal connection for said elements, an elongated approximator piece having one end thereof detachably connected to said stud and extending transversely from said elements when in connected reto groove 33, a releasing screw 40 is threadably mounted 75 lation with said stud and having the other end thereof

or members of the body during surgery to either completely stop or control the flow of blood of the patient within the vicinity of the area of the body being operated on. Jaw segment 14 has the gripping surface 23 thereof substantially concave in shape which is adapted to ac- 5 commodate jaw segment 15 when the latter is moved into gripping relation. A substantial portion of jaw segment 14 is snugly embraced by a resilient sleeve 24 which is detachably mounted thereon and is preferably formed of a latex or rubber material. A portion 24a of the sleeve 10 24 is disposed in overlying spaced relation with respect to the concave gripping surface 23 of jaw segment 14 and is adapted to be engaged by the gripping surface of the other jaw segment 15. The gripping surface of jaw segment 15 is provided with a centrally aligned elongated 15 bead 25. The periphery of the head 25 is provided with a plurality of spaced helical grooves 26 and has the portions 27 of the periphery, disposed between the grooves 26, provided with a plurality of minute cross grooves or teeth which are disposed transverse with respect to helical 20 grooves 26. The effect of the toothed or grooved periphery of bead 25 is that it prevents slipping or relative movement of the vascular tissues or members with respect to the jaw segments 14 and 15 once they are gripped thereby. The cross sectional size of the bead 25 is sub- 25stantially less than the cross sectional size of the concave surface 23 of segment 14. Thus, when the jaw segments 14 and 15 are moved into gripping relation with respect to one another, as seen in Fig. 5, no part of the periphery of bead 25 is in contact with concave surface 23, even 30 when the sleeve 24 is removed from segment 14. The effect of this clearance between jaw segments 14 and 15 is that the vascular member engaged by the jaw segments is caused to envelop the periphery of bead 25. portion 24a of sleeve 24, when contacted by bead 25, is 35 flexed downwardly successively more as a greater number of the serrations of the lugs 21a and 21b become meshed with one another. As noted in Fig. 5, an air pocket 23 is formed between flexed portion 24a of sleeve 24 and the concave surface 23 of segment 14 and functions as a pneu- 40 matic cushion for the vascular tissue or member being gripped by the jaw segments and prevents the vascular tissue or member being permanently damaged by the jaw The sleeve 24 is of sufficient thickness and resilience that when the jaw segments are in a fully 45 closed position with respect to one another, the edges 23' of concave surface 23 are spaced from the adjacent peripheral portions of the bead 25 a distance equal or greater than the thickness of the sleeve material so that the vascular tissue or member when being gripped will 50 be cushioned by the sleeve material.

A modified form of forceps 30 is shown in Fig. 7, which is substantially the same as that shown in Fig. 1, except that a lug or protuberance 31 is formed at the pivotal connection 13 and extends therefrom in an axial direc- 55 tion with respect to the pivotal axis of the forceps. The lug 31 is adapted to be encompassed by the open end of an approximator 32. The distal end of the lug 31 is provided, in this instance, with an annular groove 33 which provides a seat for a pintle 34 mounted on the approximator 32 adjacent the open end thereof. The approximator 32, in this instance, is formed of lightweight, preferably metallic material and comprises a cylindrical body member 35 having the opposite ends thereof adapted to receive the lugs formed on the two pairs of forceps 30. Mounted on the outer periphery of body member 35 is a leaf spring 36 which is riveted at approximately its center to said member 35. A pintle 34 is affixed to each of the free ends of the spring 36 and is adapted to extend through an aperture 38 formed in the body member adjacent the open end thereof, see Fig. 8. The tip of the pintle 34 is normally urged into seating engagement with the groove 33, formed on the lug 31, by leaf spring 36. To effect disengagement of the pintle 34 with respect